



*cited in  
the application*

## PATENT ABSTRACTS OF JAPAN

(11) Publication number: **09198481 A**(43) Date of publication of application: **31.07.97**

(51) Int. Cl.

**G06K 19/07**  
**G06K 19/077**  
**G07G 3/00**  
**G09F 3/00**

(21) Application number: **08005845**(22) Date of filing: **17.01.96**(71) Applicant: **TOSHIBA CHEM CORP**

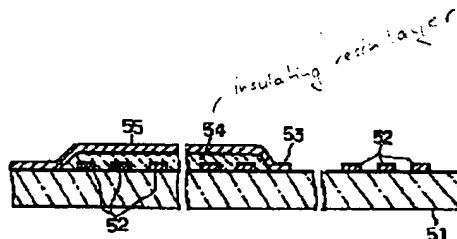
(72) Inventor: **KUROKAWA TOKUO**  
**FURUHATA KENICHI**  
**MIYAMURA MASATAKA**

(54) **ELECTRONIC TAG**

## (57) Abstract:

**PROBLEM TO BE SOLVED:** To provide an easily manufacturable, thin and inexpensive electronic tag of a loop type antenna-mounted type.

**SOLUTION:** By forming the respective electrically conductive parts of the transmission/reception antenna of this electronic tag by electrically conductive paste, compared to the one using a conventional coil antenna composed of a copper wire, the man-hour of the assembling operation of a responder is reduced, the thinning is performed and the price is lowered. Also, in the case of forming a loop type antenna, an insulating resin layer 54 is provided on a first electrically conductive part 52 between the innermost peripheral part 53 and the outmost peripheral part of the first electrically conductive part 52 in a spiral shape and a second electrically conductive part 55 for connecting the innermost peripheral part 53 and an IC chip is provided on it further. Thus, the thin and inexpensive electronic tag of the loop type antenna-mounted type is realized.



COPYRIGHT: (C)1997,JPO